

Title (en)
IMPROVEMENTS IN OR RELATING TO ENCAPSULATION

Title (de)
VERBESSERUNGEN AN EINKAPSELUNGSVERFAHREN

Title (fr)
AMELIORATIONS D'UNE ENCAPSULATION OU RELATIVES A UNE ENCAPSULATION

Publication
EP 1414561 A2 20040506 (EN)

Application
EP 02751374 A 20020802

Priority
• GB 0203567 W 20020802
• US 30951801 P 20010803

Abstract (en)
[origin: WO03013717A2] A method of encapsulating a product to make capsules is disclosed ; each capsule (12) is comprised of a shell (10) which holds the product and is formed of polymeric material which consists substantially totally of a single polymer. A method of encapsulating comprises forming droplets (4) of a liquid mixture of the product and a single suitable prepolymer and then exposing the droplets to a polymerising medium (8) for the prepolymer so as to polymerise the outer surfaces of the droplets, thereby forming the shells and thus the desired capsules (12). An alternative method is disclosed in which the method of encapsulating comprises forming shells containing no product by exposing droplets of a prepolymer to a polymerising medium for the prepolymer, so as to polymerise the outer surfaces of the droplets and thus form the shells and exposing these shells to an environment containing the product, and causing or allowing the product to diffuse through and into the shells, thus forming the desired capsules.

IPC 1-7
B01J 13/18

IPC 8 full level
A01K 61/00 (2006.01); **A23K 1/00** (2006.01); **A23K 1/10** (2006.01); **A23K 1/16** (2006.01); **A23K 1/18** (2006.01); **B01J 13/14** (2006.01); **B01J 13/18** (2006.01); **B01J 13/20** (2006.01)

CPC (source: EP US)
A23K 10/22 (2016.05 - EP US); **A23K 20/142** (2016.05 - EP US); **A23K 20/147** (2016.05 - EP US); **A23K 20/163** (2016.05 - EP US); **A23K 40/30** (2016.05 - EP US); **A23K 50/80** (2016.05 - EP US); **B01J 13/14** (2013.01 - EP US); **B01J 13/18** (2013.01 - EP US); **B01J 13/203** (2013.01 - EP US); **B01J 13/206** (2013.01 - EP US)

Citation (search report)
See references of WO 03013717A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03013717 A2 20030220; **WO 03013717 A3 20031231**; AU 2002355361 A1 20030224; BR 0211706 A 20040928; BR 0211706 B1 20131126; CA 2456073 A1 20030220; CN 1326604 C 20070718; CN 1561258 A 20050105; EP 1414561 A2 20040506; IS 7140 A 20040202; JP 2004537317 A 20041216; JP 4579535 B2 20101110; NO 20040566 L 20040402; NO 335804 B1 20150223; US 2004219268 A1 20041104; US 2011168100 A1 20110714

DOCDB simple family (application)
GB 0203567 W 20020802; AU 2002355361 A 20020802; BR 0211706 A 20020802; CA 2456073 A 20020802; CN 02819437 A 20020802; EP 02751374 A 20020802; IS 7140 A 20040202; JP 2003518712 A 20020802; NO 20040566 A 20040203; US 48638904 A 20040628; US 79480510 A 20100607